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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/541,256	04/17/2006	Fung-Lung Chung	11015-008	4893	
	7590 08/01/2008 Sanks Mora & Maire	,	EXAMINER		
390 N. ORANG	GE AVENUE		STONE, CHRISTOPHER R		
SUITE 2500 ORLANDO, FI	L 32801		ART UNIT	PAPER NUMBER	
			1614		
			MAIL DATE	DELIVERY MODE	
			08/01/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)			
Office Action Summary		10/541,2	256	CHUNG ET AL.			
		Examine	r	Art Unit			
		CHRIST	OPHER R. STONE	1614			
Period fo	The MAILING DATE of this commun r Reply	ication appears on th	ne cover sheet with the	correspondence ad	ddress		
A SHO WHIC - Exter after - If NO - Failui Any r	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comr period for reply is specified above, the maximum st e to reply within the set or extended period for reply seply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF T of 37 CFR 1.136(a). In no enunication. atutory period will apply and will, by statute, cause the ap	THIS COMMUNICATIOn Event, however, may a reply be to will expire SIX (6) MONTHS from Expirication to become ABANDONICATION TO THE COMMUNICATION THE COMMUNICATION THE COMMUNICATION THE COMMUNICATION	N. mely filed n the mailing date of this of ED (35 U.S.C. § 133).	·		
Status							
2a)⊠	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practi	2b)⊡ This action is for allowance excep	ot for formal matters, pr		e merits is		
Dispositi	on of Claims						
5) □ 6) ☑ 7) □ 8) □	Claim(s) 1-17 is/are pending in the a 4a) Of the above claim(s) 15-17 is/a Claim(s) is/are allowed. Claim(s) 1-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers	re withdrawn from co					
10)	The specification is objected to by the The drawing(s) filed on is/are Applicant may not request that any obje Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or b ction to the drawing(s) the correction is requ	be held in abeyance. Se ired if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 C	, ,		
•	•	,					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Foration Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Oate			

DETAILED ACTION

Applicants' arguments, filed June 30, 2008, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-6, 9 and 12 are rejected under 35 U.S.C. 102(a) as being anticipated by Hecht et al.

Claims 1-6, 9 and 12 are drawn to a method of inhibiting lung tumorigenesis in a mammal in need thereof, comprising administering to said mammal an effective amount of a conjugate of an isothiocyanate at the post-initiation stages of tumor growth. Post-initiation stage is defined in the specification as any time period after exposure to a carcinogen. Hecht et al discloses a method of inhibiting lung tumorigenesis (malignant tumor growth) in a mouse, comprising the oral administration of an isothiocyanate conjugate (PEITC-NAC) at the post-initiation stages of tumor growth (p. 1456, column 2, paragraph 2; Fig. 2; Table II, groups 5,11 and 14).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7, 8, 10, 11, 13 and 14 are rejected under 35 U.S.C. 103(a)as being unpatentable over Hecht et al.

In addition to the aforementioned teachings, Hecht et al discloses that lung cancer is the most common cancer in the world and the leading cause of cancer death in the United States. Smokers and ex-smokers are disclosed as high-risk for the development of lung cancer. Furthermore, Hecht et al teaches that there are no chemopreventative agents with proven efficacy in humans and that the goal of their research is to identify and develop such agents. Therefore it would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the method of

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Hecht et al to inhibit tumorigenesis in human smokers and ex-smokers, since lung cancer is so prevalent in this patient population, thus resulting in the practice of the instantly claimed invention with a reasonable expectation of success. It would have been obvious to one of ordinary skill in the art to accomplish oral administration using a tablet or capsule dosage form. Tablets and capsules are commonly used oral dosage forms in the pharmaceutical formulation art. The optimization of the dosage amount and schedule would have been obvious to one of ordinary skill in the art at the time of the invention to determine the regimen with maximum efficacy. This routine experimentation is common in the pharmaceutical art. Applicant is reminded of in re Aller, which affirmed that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454,456, 105 USPQ 233, 235 (CCPA 1955)

Response to Arguments

Applicant alleges to have submitted a document, authored by the Applicants, that predates Hecht et al, showing the conception of the invention of claim 1, before Hecht et al. There is no such publication in the response documents, filed June 30, 2008, to be considered. Additionally, there may be doubt as to which authors of a reference invented the disclosed subject matter and a reference may not demonstrate the conception of each and every claimed limitation in the instant application.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER R. STONE whose telephone number is (571)270-3494. The examiner can normally be reached on Monday-Thursday, 7:30am-4:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin H. Marschel can be reached on (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

29July2008 CRS

/Ardin Marschel/ Supervisory Patent Examiner, Art Unit 1614